

Serial Number: 09393,993A

ENTERED

NOV 29 2000

- Changed a file from non-ASCII to ASCII
- Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- Edited a format error in the Current Application Data section, specifically:

TECH CENTER 1600/2900

- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_
- Added the mandatory heading and subheadings for "Current Application Data".
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included:
- Deleted extra, invalid, headings used by an applicant, specifically:
- Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  page numbers throughout text;  other invalid text, such as \_\_\_\_\_
- Inserted mandatory headings, specifically:
- Corrected an obvious error in the response, specifically:
- Edited identifiers where upper case is used but lower case is required, or vice versa.
- Corrected an error in the Number of Sequences field, specifically:
- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- Other: Sequence 537 - fixed amino acid numbering

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

1631

RAW SEQUENCE LISTING DATE: 11/16/2000  
PATENT APPLICATION: US/09/593,793A TIME: 14:38:51

Input Set : A:\427c15.app  
Output Set: N:\CRF3\11162000\I593793A.raw

3 <110> APPLICANT: Xu, Jiangchun  
4 Dillon, Davin C.  
5 Mitcham, Jennifer L.  
6 Harlocker, Susan L.  
7 Jiang, Yuqui  
8 Reed, Steven G.  
9 Kalos, Michael D.  
10 Fanger, Gary R.  
11 Retter, Marc W.  
12 Stolk, John A.  
13 Day, Craig H.  
14 Vedvick, Thomas S.  
15 Carter, Darrick  
16 Li, Samuel  
17 Wang, Aijun  
18 Skeiky, Yasir A.W.  
19 Helper, William  
21 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
22 DIAGNOSIS OF PROSTATE CANCER  
24 <130> FILE REFERENCE: 210121.42715C15  
C--> 26 <140> CURRENT APPLICATION NUMBER: US/09/593,793A  
C--> 27 <141> CURRENT FILING DATE: 2000-06-13  
29 <160> NUMBER OF SEQ ID NOS: 814  
31 <170> SOFTWARE: FastSEQ for Windows Version 3.0

Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

10945 <210> SEQ ID NO: 537  
10946 <211> LENGTH: 1228  
10947 <212> TYPE: PRT  
10948 <213> ORGANISM: Homo sapiens  
10950 <400> SEQUENCE: 537  
10951 Met Leu Pro Val Tyr Gln Glu Val Lys Pro Asn Pro Leu Gln Asp Ala  
10952 5 10 15  
10954 Asn Leu Cys Ser Arg Val Phe Phe Trp Trp Leu Asn Pro Leu Phe Lys  
10955 20 25 30  
10957 Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu  
10958 35 40 45  
10960 Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp  
10961 50 55 60  
10963 Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu  
10964 65 70 75 80  
10966 Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly  
10967 85 90 95  
10969 Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe  
10970 100 105 110

• RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/593,793A

DATE: 11/16/2000  
TIME: 14:38:53

Input Set : A:\427c15.app  
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10972 Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser  
 10973 115 120 125  
 10975 Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys  
 10976 130 135 140  
 - 10978 -Thr Leu Ile-Leu-Ala Ile Leu His His Leu Tyr Phe\_Tyr\_His Val Gln  
 10979 145 150 155 160  
 10981 Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg  
 10982 165 170 175  
 10984 Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Gly  
 10985 180 185 190  
 10987 Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn Lys Phe Asp Gln Val  
 10988 195 200 205  
 10990 Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro Leu Gln Ala Ile Ala  
 10991 210 215 220  
 10993 Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile Ser Cys Leu Ala Gly  
 10994 225 230 235 240  
 10996 Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln Ser Cys Phe Gly Lys  
 10997 245 250 255  
 10999 Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr Phe Thr Asp Ala Arg  
 11000 260 265 270  
 11002 Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile Arg Ile Ile Lys Met  
 11003 275 280 285  
 11005 Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile Thr Asn Leu Arg Lys  
 11006 290 295 300  
 11008 Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn  
 11009 305 310 315 320  
 11011 Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile Val Phe Val Thr Phe  
 11012 325 330 335  
 11014 Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr Ala Ser Arg Val Phe  
 11015 340 345 350  
 11017 Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu Thr Val Thr Leu Phe  
 11018 355 360 365  
 11020 Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg  
 11021 370 375 380  
 11023 Arg Ile Gln Thr Phe Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg  
 11024 385 390 395 400  
 11026 Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr  
 11027 405 410 415  
 11029 Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser  
 11030 420 425 430  
 11032 Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly  
 11033 435 440 445  
 11035 Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro  
 11036 450 455 460  
 11038 Ser His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln  
 11039 465 470 475 480  
 11041 Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly  
 11042 485 490 495  
 11044 Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala

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|       |   |     |     |
|-------|---|-----|-----|
| 11045 | 500   | 505 | 510 |
| 11047 | Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile |     |     |
| 11048 | 515   | 520 | 525 |
| 11050 | Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn |     |     |
| 11051 | 530   | 535 | 540 |
| 11053 | Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp |     |     |
| 11054 | 545   | 550 | 555 |
| 11056 | Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu |     |     |
| 11057 | 565   | 570 | 575 |
| 11059 | Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His |     |     |
| 11060 | 580   | 585 | 590 |
| 11062 | Glu Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp |     |     |
| 11063 | 595   | 600 | 605 |
| 11065 | Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly |     |     |
| 11066 | 610   | 615 | 620 |
| 11068 | Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln |     |     |
| 11069 | 625   | 630 | 635 |
| 11071 | Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu |     |     |
| 11072 | 645   | 650 | 655 |
| 11074 | Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly |     |     |
| 11075 | 660   | 665 | 670 |
| 11077 | Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu |     |     |
| 11078 | 675   | 680 | 685 |
| 11080 | Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr |     |     |
| 11081 | 690   | 695 | 700 |
| 11083 | Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Leu |     |     |
| 11084 | 705   | 710 | 715 |
| 11086 | Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln Asp Trp Trp Leu Ser |     |     |
| 11087 | 725   | 730 | 735 |
| 11089 | Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly |     |     |
| 11090 | 740   | 745 | 750 |
| 11092 | Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr |     |     |
| 11093 | 755   | 760 | 765 |
| 11095 | Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu |     |     |
| 11096 | 770   | 775 | 780 |
| 11098 | Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys |     |     |
| 11099 | 785   | 790 | 795 |
| 11101 | Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu Phe Phe Asp Arg Asn |     |     |
| 11102 | 805   | 810 | 815 |
| 11104 | Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly His Leu |     |     |
| 11105 | 820   | 825 | 830 |
| 11107 | Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe Ile Gln Thr Leu Leu |     |     |
| 11108 | 835   | 840 | 845 |
| 11110 | Gln Val Val Gly Val Val Ser Val Ala Val Ala Val Ile Pro Trp Ile |     |     |
| 11111 | 850   | 855 | 860 |
| 11113 | Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe Ile Phe Leu Arg Arg |     |     |
| 11114 | 865   | 870 | 875 |
| 11116 | Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr |     |     |
| 11117 | 885   | 890 | 895 |

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Input Set : A:\427c15.app  
Output Set: N:\CRF3\11162000\I593793A.raw

11119 Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser Leu Gln Gly Leu Trp  
11120 900 905 910  
11122 Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys Gln Glu Leu Phe Asp  
11123 915 920 925  
11125 Ala His Gln Asp Leu His Ser Glu Ala Trp Phe Leu Phe Leu Thr Thr  
11126 930 935 940  
11128 Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile Cys Ala Met Phe Val  
11129 945 950 955 960  
11131 Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala Lys Thr Leu Asp Ala  
11132 965 970 975  
11134 Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met  
11135 980 985 990  
11137 Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile  
11138 995 1000 1005  
11140 Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro  
11141 1010 1015 1020  
11143 Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val  
11144 1025 1030 1035 1040  
11146 Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu  
11147 1045 1050 1055  
11149 Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly  
E--> 11150 1060 1065 1070  
11152 Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu  
11153 1075 1080 1085  
11155 Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu  
11156 1090 1095 1100  
11158 Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile  
11159 1105 1110 1115 1120  
11161 Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp  
11162 1125 1130 1135  
11164 Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu  
11165 1140 1145 1150  
11167 Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr  
11168 1155 1160 1165  
11170 Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu  
11171 1170 1175 1180  
11173 Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile  
11174 1185 1190 1195 1200  
11176 Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln  
11177 1205 1210 1215  
11179 Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys  
11180 1220 1225

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/593,793A

DATE: 11/16/2000  
TIME: 14:38:56

Input Set : A:\427c15.app  
Output Set: N:\CRF3\11162000\I593793A.raw

L:26 M:270 C: Current Application Number differs, Wrong Format  
L:27 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/593,793A

DATE: 11/16/2000

TIME: 14:38:56

Input Set : A:\427c15.app

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L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:11150 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:537

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